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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/473,022	12/28/1999		HIROSHI UENO	046982/0112	9495
44987	7590	07/21/2005		EXAMINER	
HARRITY		•	JAIN, RAJ K		
11240 WAPLES MILL ROAD SUITE 300				ART UNIT	PAPER NUMBER
FAIRFAX,	FAIRFAX, VA 22030			2664	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/473,022	UENO, HIROSHI				
Office Action Summary	Examiner	Art Unit				
	Raj K. Jain	2664				
The MAILING DATE of this communication ap	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02 l</u>	May 2005.	·				
. —	is action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-4,7 and 9-12 is/are pending in the 4a) Of the above claim(s) is/are withdres 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4,7 and 9-12 is/are rejected. 7) ⊠ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the sheet of the sheet and the sheet of the	ccepted or b) objected to by the le drawing(s) be held in abeyance. Section is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicati fority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	. 4) Interview Summary Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	5) Notice of Informal F6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 7, and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagamoto (US006163528A).

Regarding claim 1, Nagamoto discloses an ATM (Asynchronous Transfer Mode) multiplexing apparatus (see Fig. 1, abstract) for connection to an ATM switching unit (1) and to each of plural subscribers (HWIN-1 to – N) through ATM communication lines and performing multiplexing processing of ATM cells sent from the plural subscribers, the ATM multiplexing apparatus comprising:

- detection means (13) for detecting a congestion state corresponding to received ATM cells from the subscribers and outputting a level value corresponding to the congestion state, said level value indicating an amount of congestion (see Fig. 1, col 1 lines 39-46, col 2 lines 60-64, the cell threshold detector 13, detects the congestion and outputs a signal indicative of the amount of congestion back to the read controller 23 of each input buffer 2).

- and discard means for selectively discarding the received ATM cells from the subscribers based on a communication state determined by ATM cells received from the ATM switching unit and ATM cells received from the subscribers and based on the level value of the congestion state (see Fig. 2, col 2 lines 45-66, col 3 lines 46-55, the selective cell discard controllers (PD), determine which packet is to be discarded based on predetermined criteria such as QoS, bit rate etc., see col 4 line 7 – col 5 line 40. One discard method is simply the overflow of cell buffers and therefore congestion limitations of a system see col 4 line 15.)

Regarding claims 2 & 4, Nagamoto discloses a general ATM multiplexing apparatus, which incorporates within each ATM cell by default header information that is identified in the form of VPI/VCI values indicative of source and destination addresses, one skilled in the art will appreciate that a given ATM system updates its queues and switches based on received ATM packets based on its header information, thus the examiner takes official notice that ATM updating of queues is well known in the arts of ATM switching and monitoring and thus the updating and having "first" and or second header information is obvious as the VPI/VCI values would change with each new subscriber location where the packet arrives at, and where the packet may be directed to go from there.

Regarding claim 3, Nagamoto discloses a detection means (see 13 of Fig. 1, col 1 lines 39-45, col 2 line 60) and a comparison means to indicate degree of occupancy (see col 4 lines 34 – 44).

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Regarding claim 7, Nagamoto discloses discard means based on preset logic (see Fig. 2, col 2 lines 45-66, col 3 lines 46-55, the selective cell discard controllers (PD), determine which packet is to be discarded based on predetermined criteria such as QoS, bit rate etc., see col 4 line 7 – col 5 line 40).

Regarding claim 9, Nagamoto discloses a method of discarding ATM cells comprising :

-receiving ATM cells sent from subscribers and detecting a congestion state of the received ATM cells from the subscribers (see Fig. 1, subscribers HWIN send the ATM cells to the ATM switch 1, congestion is detected by 13 the cell threshold detector),

-updating a communication state determined based on the received ATM cells from the subscribers and based on received ATM cells from an ATM switching unit (see Fig. 1, col 2 lines 45-64, once the threshold state is determined for each queue, the congestion state is fed back to the read controller 23 of input buffer 1 which modifies or updates its transfer status accordingly),

ATM cells from the subscribers is performed on the basis of the updated communication state data and a level value of a signal indicating the congestion state, said level value indicating an amount of congestion, and selectively performing the discard processing on the basis of the decision result (see Fig. 1, col 1 lines 39-46, col 2 lines 60-64, the cell threshold detector 13, detects the congestion and outputs a signal indicative of the

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amount of congestion back to the read controller 23 of each input buffer 2, based on preset logic criteria's a decision is made whether to discard the cell or not see Fig. 2, col 2 lines 45-66, col 3 lines 46-55, the selective cell discard controllers (PD), determine which packet is to be discarded based on predetermined criteria such as QoS, bit rate etc., see col 4 line 7 – col 5 line 40.).

Regarding claim 10, Nagamoto discloses a ATM (asynchronous transfer mode) multiplexing device comprising (see Fig 1, abstract)

-a discard control component (PDs see Fig. 2) configured to maintain communication state information determined based on header data of ATM cells received from an ATM switch and a subscriber (see col 3 lines 45-60, each discard controller performs selective cell discard based on preset logic criterias as determined by the user see col 4 lines 7-57), and

-a detection component including (13, Fig 1) a queue (22) for storing ATM cells from the subscriber, and a comparison (see see col 4 lines 34 – 44 comparison means to indicate degree of occupancy) component configured to compare a degree of occupancy of the queue to a threshold to obtain a congestion level corresponding to an amount of congestion of the queue, wherein the discard control component selectively discards ATM cells received from the subscriber based on the congestion level and the communication state information (see Fig. 2, PDs, col 4 lines 7-57, where PDs perform selective cell discard based on preset logic criterias as determined by the user see col 4 lines 7-57).

Regarding claim 11, Nagamoto discloses plurality of discard components (PDs, Fig. 2) and plurality of detection components (13, Fig. 1) where one PD and one detection component is assigned to each subscriber (HWIN-1 to - N) respectively (see col 2 line 64 – col 3 line 5).

Regarding claim 12, Nagamoto discloses plurality of thresholds based on each individual subscriber (HWIN-1 to -N) (see col 2 lines 36-44, col 2 line 64 – col 3 line 5).

Response to Arguments

Applicant's arguments with respect to claims 1-4, 7, 9-12 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj Jain whose telephone number is 571-272-3145.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

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June 20, 2005